Public Works (1905) Department.

G.O., No. 430 / 431 } J

DATED 5th May 1905.

Proof

90/3 copies of G.O.

22/2 copies of Estt. with docket at the beginning of the G.O.

30 copies of Estt. & diagrams

918

[Despatch Abstract.]

Marudhangulam tank connected with the Periyar Project.

An estimate, amounting to Rs 1546, for improving & ~~repairing~~ the — , sanctioned, and a copy of the Pro: ordered to be forwarded to the ... for information.

Marudhangulam tank connected with the Periyar Project.

Forwarding a copy of the Pro: sanctioning estimate, amounting to Rs 1546, for improving ~~repairing~~ the —— .

F.E.J. [illegible] 9/5/05

[illegible] 6.5.05

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

IRRIGATION.
ACCOUNT.

Government {1905} of Madras.

PUBLIC WORKS.

Recd. } 1905.
Regd. }

Enclosures

Spare copies

G.O., Nos. 430, 431 I., 5th May 1905.

MAY.

Marudhangulam Tank connected with the Periyar Project

Forwarding a copy of the Proceedings sanctioning an estimate, amounting to Rs. 1,546, for improving the —.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

Read—the following papers:—

From the Superintending Engineer, VI Circle, dated 18th March 1905, No. 207 C.E.

Enclosure.

Report to accompany the Estimate for improvements and repairs to No. 101 Marudhangulam tank, Madura taluk.

	RS.
Amount of estimate—	
Improvements	1,250
Repairs	360
Total ...	1,610

General.—The tank which is one of those to be left as they are is now proposed to be maintained for reasons set forth in this office No. 501 S.E., dated 14th September 1903.

Source of supply.—The tank receives Periyár supply from the tail end of 5th branch channel in addition to the supply from its own drainage area.

Ayacut.—The proposed ultimate ayacut under the tank is 100 acres which includes the wet ayacut of 33 acres under No. 102 Vangulam tank and 17·80 acres of tank bed available for cultivation in No. 102 Vangulam to be abandoned as per Board's Proceedings, Mis. No. 3864, dated 7th July 1902, communicated in Irrigation Chief Engineer's No. 66 M.D., dated 16th July 1902. The annual increase in revenue due to the proposed improvements will be about Rs. 303 as per details shown in the revenue statement.

Sluices.—As it is not desirable to allow irrigation through the existing pot sluices which often lead to breaches in the tank bund, it is now proposed to construct two 9″ cement pipe sluices at suitable site as per plans accompanying to command the whole ayacut under the tank.

Bund.—The bund is low and weak in places and it is proposed to raise it to 3 feet above M.W.L. with a top width of 4 feet and side slopes of 1½ to 1 both in front and rear.

F.T.L.—The F.T.L. which has been fixed with reference to the water marks observed on the foreshore and by local enquiry is now proposed to be raised by 1 foot to store more water in the tank so as to enable the proposed ultimate area being irrigated without difficulty.

Submergence and Land compensation.—The extent of 3·93 acres shown in the enclosed statement as lands submerged at the proposed F.T.L. is not subjected to mamul submergence. Though cultivation is possible over the whole area, as only 9″ of water will stand over it, yet if the pattadar desires to be compensated, he may be given exchange of land in Vangulam tank bed and therefore no provision is made in the estimate for land compensation. The extent of 17·80 acres entered in the revenue statement as tank-bed lands available for sale and irrigation is less the extent which may be required for extending the bund of Marudhangulam and for giving in exchange for patta lands shown as submerged at the proposed F.T.L.

Provision has now been made for the acquisition of the lands submerged.
A.V.R.

(Signed) A. V. RAMALINGA AIYAR,
Executive Engineer, Madura Division.

7th March 1905.

Note by the Chief Engineer for Irrigation.

The Superintending Engineer, VI Circle, submits two estimates amounting to Rs. 1,250 and Rs. 360, respectively, for improving and repairing the Marudhangulam tank connected with the Periyár project. As the tank has no surplus works and as the irrigation under it is carried on by means of pot sluices, the estimate for improvements provides for constructing a masonry calingulah and two pipe sluices. The F.T.L. of the tank is also proposed to be raised so as to enable the proposed ultimate area of 100 acres to be irrigated without difficulty. The dry stone apron in rear of the proposed calingulah has been widened in this office from 5′ 9″ to 10 feet. The front retaining wall of sluice No. 1 has also been lengthened from 10 to 14 feet and the bottom widths of the retaining walls in front and rear increased to $3\frac{1}{2}$ and $2\frac{1}{2}$ feet respectively. Provision has also been made in the estimate for revetting the slopes of the leading channels in front and rear of sluice No. 1 and in front of sluice No. 2 for a length of 5 feet at a slope of 1 to 1. These alterations have raised the amount of the estimate to Rs. 1,350 which is recommended for sanction.

2. The work is classed as "unremunerative" and will probably be completed by the 31st March 1906.

3. The estimate for repairs will be approved and returned to the Superintending Engineer to be sanctioned by him under "Maintenance and Repairs".

(Signed) A. H. GARRETT,
Chief Engineer for Irrigation.

27th April 1905.

ORDER—No. 430 I., dated 5th May 1905.

The following estimate is sanctioned :—

Imperial.
Capital Expenditure not charged to Revenue.
49. Irrigation.
Periyár Project.
Open Capital Account.
I. Works.
3. Distributaries
Unremunerative Work.
Improving the Marudhangulam tank.

	RS.	RS.
B. Land—		
Compensation for land	498	
		498
C. Works—		
1. Constructing a calingulah at the left flank	355	
2. ,, No. 1, 9″ cement pipe sluice	272	
3. ,, No. 2, 9″ ,, ...	213	
		840
O. Miscellaneous—		
Demarcation stones	12	
		12
Total, I. Works ...		1,350
II. Establishment ...		196
Grand Total ...		1,546

2. The sanction is registered as No. 14 I. of 1905–1906 and will expire on the 31st March 1906.

3. Ordered that a copy of these Proceedings be forwarded to the Government of India for information.

[Here enter No. 431 I., dated 5th May 1905.]

(True Extract.)

(Signed) A. H. GARRETT,
Joint Secretary to Government,
Irrigation Branch.

To the Chief Engineer for Irrigation.
" Superintending Engineer, VI Circle, with plans and estimates.
" Examiner, Public Works Accounts.

ENDORSEMENT—No. 431 I., dated 5th May 1905.

Forwarded.

(By order.)

(Signed). A. H. GARRETT,
Joint Secretary to Government,
Irrigation Branch.

Stock Form No.
3,000—18-7-02.

Public Works (1905.) Department

CURRENT No. 1331

From

[*Name*] C. J. U S S H E R Esquire.,

[*Designation*] Superintending Engineer, VI Circle

[*Station*] Trichinopoly.

No. 207 CE

Dated 18 March 1905

Enclosures {Plans 7, Others 2} Total. 9

Spare copies

Received 21. 3. 1905

Registered 50 1905

Passed on, by—

Registering Clerk 190 .

U. R. Clerk 190 .

Referencer 190 .

Record Supdt. 190 .

Drafting Officer 190 .

SUBJECT

Marudhungalam tank Madura Taluq

Submitting estimates for — for sanction

BACK PAPERS.

PWC1 4358/05

FURTHER PAPERS.

Putup papers
[illegible]/05

[illegible] 22/3/05

To

The ~~Secretary to Government~~ Chief Engineer, ~~Public Works Department.~~

For Irrigation,

MADRAS.

Sir,

Encl. 9.

I have the honor to submit for approval and sanction an estimate amounting to Rs.1,250 for improvements to Marudhankulam, a Periyar affected tank in Madura Taluk, the maintenance of which by Government was sanctioned in G.O.No.1350-I, dated 6th December 1904.

2. The tank has at present no surplus works, and the irrigation is being carried on by means of temporary pot sluices.- It is now proposed to construct a pucka masonry calingulah and two 9 inch pipe sluices for irrigation. It is also proposed to increase the capacity of the tank by raising the F.T.L. by one foot, and in consequence the lands in the foreshore to the extent of 3.93 acres are liable to submergence. The Collector of Madura suggests that the Land holders be compensated by money compensation instead of exchange of lands as proposed by the Executive Engineer, and for this purpose a sum of Rs.498 is now provided in the estimate which sum has been fixed by the Special Deputy Collector at Periyar.

3. The tank bund is low and weak and for its repair an estimate for Rs.360 has been prepared on level sections which is - also submitted for approval.

4. The work is unremunerative, and it may be expected to be completed by the end of March 1906. Plans of all masonry works are forwarded and a report is attached to the estimate.

I have the honor to be,
Sir,
Your most obedient servant,

[signature]

Superintending Engineer,
VI Circle.

Encl.
1 Estimate for improvements
5 Tracings
1 Estimate for repairs
2 Tracings
9

B.N. 17.3.05

Report to accompany the estimate for Improvements and repairs to No.101 Marudhangulam Tank, Madura Taluq.

CHIEF ENGINEER FOR IRRIGATION
21 MAR 1905
No. 1331

Amount of Estimate.		
Improvements	.. Rs.1250.	1340
Repairs.	... Rs. 360	360
Total...	... Rs.1610	1700

General. The tank which is one of those to be left as they are is now proposed to be maintained for reasons set forth in this office No.501.S.E.dated 14th September 1903.

Source of supply. The tank receives Periyar supply from the tail end of 5th Branch channel in addition to the supply from its own drainage area.

Ayacut. The proposed ultimate ayacut under the tank is 100 acres which includes the wet ayacut of 33 acres under No.102 Vangulam Tank and 17.80 acres of tank bed available for cultivation in No.102 Vangulam to be abandoned as per Board's Proceedings Mis.No.3864 dated 7th July 1902 - communicated in Irrigation Chief Engineer's No.66 M.D.dated 16th July 1902. The annual increase in revenue due to the proposed improvements will be about Rs.303 as per details shown in the revenue statement.

Sluices. As it is not desirable to allow irrigation through the existing pot sluices which often lead to breaches in the tank bund, it is now proposed to construct 2-9" cement pipe sluices at suitable site as per plans accompanying to command the whole ayacut under the tank.

Bund. The bund is low and weak in places and it is - proposed to raise it to 3 feet above M.W.L.with a top width of 4 feet and side slopes of 1½ to 1 both in front and rear

F.T.L. The F.T.L. which has been fixed with reference to the water marks observed on the foreshore and by local - enquiry, is now proposed to be raised by 1 foot to store more water in the tank so as to enable the proposed ultimate area being irrigated without difficulty.

Submergence & Land Compensation. The extent of 3.93 acres shown in the enclosed statement as lands submerged at the proposed F.T.L.is not subjected to mamool submergence. Though cultivation is -

possible over the whole area, as only 9" of water will stand over it, yet if the Pattahdar desires to be compensated, he may be given ~~to~~ exchange of land in Vannangulam tank bed - and therefore no provision is made in the estimate for land compensation. The extent of 17.80 acres entered in the - revenue statement as tank bed lands available for sale and irrigation is less the extent which may be required for - extending the bund of Marudhangulam and for giving in -- exchange for pattah lands shown as submerged at the proposed F.T.L.

Provision has now been made for the acquisition of the lands submerged for ...

A V Ramalingam

Executive Engineer,

Madura Division.

Pwd 4358/65

[E. I. Form No. 42—600—23-8-04.]

Public Works Department,

Irrigation Branch.

Current No. 1331 of 21-3-05

Letter No. 207 CE

Dated 18-3-05.

From The S.E. 6th circle (Mr. C.J. Weller)

Prepared by Ex. Engr. (Mr. C.V. Ramalinga Iyer)

NOTE by Technical Section.

Name of work. Improving & repairing Marudangulam tank. Periyar affected. Madura district.

Amount of Estimate Rs. Improvement 1250
Repair 360
1610

Surplus arrangements. Area of free basin = ·43 sq. miles
Combined basin = ·74 "
Discharge expected = 363 cft per sec.

There is no surplus work in the tank at present; it is proposed to construct a masonry calingulah 46 ft long at left flank to dispose of the whole surplus. The drystone apron has been widened from 5'-9" to 10 ft as per D.E.'s orders.

Sluices. 2 cement pipe sluices of 9" diam. are proposed to be built in place of 2 existing pot sluices ~~and~~. The front head wall of sluice No. 1 has been lengthened from 10 to 14 ft. The slopes of the leading chal. in front & rear of sluice No. 1 and in front of sluice No. 2 require to be revetted for 5' from the retaining walls for which provision has now been added in the estimate. The bottom widths of the front & rear ~~retaining walls~~ of sluice No. 1 ~~have~~ now been increased to 3½ & 2½ ft respectively. The above alterations have increased the estimate from Rs 1250 to Rs. 1350.

Repairs Rs 360. The tank is proposed to be raised to 3 ft above M.W.L. with 4 ft top width & slopes 1½ to 1. It is stated that the amount allowed for compensation for land to be acquired for the waterspread at the proposed F.T.L. has been fixed in consultation with the Rev. Deptt.

[illegible] 19/4/05. Hurd. 20.4.05.

Current No. 1331

S. E. J.

Orders are requested if the estimate (1) of Rs 1250 for improving the tank may be checked for sanction.

The estimate of Rs 360 for repairing the tank being within the S. E's powers of sanction may be approved & returned to (2) be sanctioned by him under "42 Major works (working Expenses) Maintenance & Repairs".

[signature]
21.3.05.

(1) Yes make apron 10 ft wide
(2) yes
JWSS
21/3/05.

P.W. No. 4358
Recd 3.5.05
Regd 4.5.05
Enclos. 16 (4 plans)

PUBLIC WORKS DEPARTMENT,
IRRIGATION BRANCH.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

1.8P

READ the following

A From the Supg: Engr. VI circle, d/ 18th March 1905, No. 207 C.E.

3P

Note by the Chief Engr. for Irrign.

The Supg: Engr, VI circle, submits two estimates amounting to Rs 1,250 and Rs 360 respectively for improving and repairing the Marudhangulam Tank connected with the Periyar project. As the tank has no surplus works and as the irrigation under it is carried on by means of pot sluices, the estimate for improvements provides for constructing a masonry Calingulah and two pipe sluices. The F. T. L. of the tank is also proposed to be raised so as to enable the proposed ~~ultimate~~ ~~proposed~~ area of 100 acres to be irrigated without difficulty. The drystone apron in rear of the proposed

F. E. D.

Calingalah has been widened in this office from 5'9" to 10 feet. The front retaining wall of sluice No. 1 has also been lengthened from 10 to 14 ft and the bottom widths of the retaining walls in front and rear increased to 3½ and 2½ feet respectively. Provision has also been made in the estimate for revetting the slopes of the leading channels in front and rear of sluice No. 1 and in front of sluice No. 2 for a length of 5 ft at a slope of 1 to 1. These alterations have raised the amount of the estimate to Rs 1,350. which is recommended for sanction.

2. The work is classed as "un-remunerative" and will probably be completed by the 31st March 1906.

3. The estimate for repairs will be approved and returned to the Supg: Engr. to be sanctioned by him under "Maintenance & Repairs".

Order.

4 P.

Order No 430 I. dated 5.5.05.

Irrign Amend

The following estimate is sanctioned :—

Imperial

Capital Expenditure not charged to Revenue

49 Irrigation

Periyar Project

Open Capital account

I Works

3 Distributaries

Unremunerative work

Improving the Marudhangulam tank

B. Land.	Rs	Rs
Compensation for land	498	498
C. Works.		
1. Constructing a calingulah at the left flank	355	
2. Constructing No: 1 9" cement pipe sluice	272	
3. Constructing No: 2, 9" cement pipe sluice	213	840
G. Miscellaneous.		
Demarcation stones	12	12
Total I Works	Rs	1350
II Establishment		196
Grand Total	Rs	1546

2. This sanction is registered as No: 14 I of 1905–06

3

and will expire on the 31st March 1906.

3. Ordered that a copy of these Proceedings be forwarded to the Govt. of India for information.

Endorsement No 431 I dated 5.5.05.

Forwarded

Issue

DESPATCHED
29 MAY 1905

[illegible]

27/4/05.

27.4.05

To
The Chief Engr. for Irrign.
" Supg: Engr. VI circle with plans & estimates
" Ex-aminer, P.W. Accts.

[illegible] 26.4.05

DESPATCHED
25 MAY 1905

E. I. Form No. 1 (a)—500—7-4-04. (inner.)